

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet	1	of	2
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**Complete if Known**

<b>Application Number</b>	<b>10/660,122</b>
<b>Filing Date</b>	<b>September 11, 2003</b>
<b>First Named Inventor</b>	<b>David J. Ecker</b>
<b>Group Art Unit</b>	<b>To Be Determined</b>
<b>Examiner Name</b>	<b>To Be Determined</b>
<b>Attorney Docket Number</b>	<b>IBIS0061-100 (DIBIS-0002US.P3)</b>

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date Considered

3/17/01

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Sheet 2 of 2

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First Named Inventor	David J. Ecker
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	IBIS0061-100 (DIBIS-0002US.P3)

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
✓	CG	Muddiman et al., "Characterization Of PCR Products From Bacilli Using Electrospray Ionization FTICR Mass Spectrometry," <i>Anal Chem.</i> , 1996, Vol. 68, No. 21, pp. 3705-3712.	
✓	CH	Hurst et al., "MALDI-TOF Analysis Of Polymerase Chain Reaction Products From Methanotrophic Bacteria," <i>Anal. Chem.</i> , 1998, Vol. 70, No. 13, pp. 2693-2698.	
✓	CI	Lacroix et al., "PCR-Based Technique For The Detection Of Bacteria In Semen And Urine," <i>J. Microbiol. Meth.</i> , 1996, Vol. 26, pp. 61-71.	
✓	CJ	Yao et al., "Mass Spectrometry Based Proteolytic Mapping For Rapid Virus Identification," <i>Anal. Chem.</i> , 2002, Vol. 74, No. 11, pp. 2528-2534.	
✓	CK	Van Baar et al., "Characterization Of Bacteria By Matrix Assisted Laser Desorption/Ionisation And Electrospray Mass Spectrometry," <i>FEMS Microbiol. Reviews</i> , 2000, Vol. 24, pp. 195-219.	

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Considered

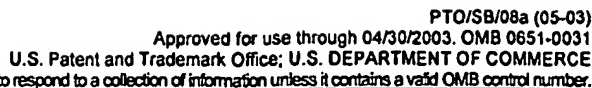
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Sheet

1

of

2

Application Number

10/680.997 10/110 14

Filing Date

**September 12, 2003**

First Name

David J. Ecker

## Art Unit

**Not Yet Assigned**

**Examiner Name**

**Not Yet Assigned**

Attorney Docket Number

**IBIS0063-100 (DIBIS-0002US.P2)**

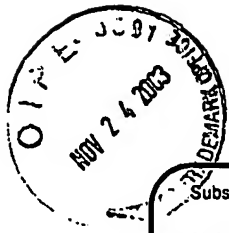
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2 of 2

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Application Number	10/660,997 <i>12</i>
Filing Date	September 11, 2003
First Named Inventor	David J. Ecker
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	IBIS0063-100 (DIBIS-0002US.P2)

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>2</i>	CA	Aaserud, et al., "Accurate base composition of double-strand DNA by mass spectrometry," J. Am. Soc. Mass Spec. (1996) 7:1266-1269.	
<i>1</i>	CB	Muddiman, et al., "Length and base composition of PCR-amplified nucleic acids using mass measurements from electrospray ionization mass spectrometry," Anal. Chem. (1997) 69:1543-1549.	
<i>1</i>	CC	Wunschel, et al., "Heterogeneity in bacillus cereus PCR products detected by ESI-FTICR mass spectrometry," Anal. Chem. (1998) 70:1203-1207.	
<i>1</i>	CD	Muddiman, et al., "Sequencing and characterization of larger oligonucleotides by electrospray ionization fourier transform ion cyclotron resonance mass spectrometry," Rev. Anal. Chem. (1998) 17:1-68.	
<i>1</i>	CE	Hurst, et al., "Detection of bacterial DNA polymerase chain reaction products by matrix-assisted laser desorption/ionization mass spectrometry," Rapid. Comm. Mass. Spec. (1996) 10:377-382.	
<i>2</i>	CF	Muddiman, et al., "Precise mass measurement of a double-stranded 500 base-pair (309 kDa) polymerase chain reaction product by negative ion electrospray ionization fourier transform ion cyclotron resonance mass spectrometry," Rapid Comm. Mass Spec. (1999) 13:1201-1204.	

Examiner Signature	<i>[Signature]</i>	Date Considered	<i>3/7/04</i>
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/660,997 <i>122</i>		
		Filing Date	September 12, 2003		
		First Named Inventor	David J. Ecker		
		Group Art Unit	Not Yet Assigned		
		Examiner Name	Not Yet Assigned		
Sheet	1	of	5	Attorney Docket Number	IBIS0063-100/DIBIS-0002US.P2

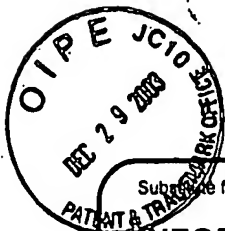
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<i>N</i>	S1	BAKER, et al., "Review and re-analysis of domain-specific 16S primers," J. Microbiol. Methods (2003) 55:541-555.	
	S2	BENSON, et al., "Advantages of Thermococcus kodakaraensis (KOD) DNA polymerase for PCR-mass spectrometry based analyses," J. Am. Soc. Mass Spectrom. (2003) 14:601-604.	
	S3	BLACK, et al., "Detection of trace levels of tricothecene mycotoxins in human urine by gas chromatography-mass spectrometry," J. Chromatog. (1986) 367:103-115.	
	S4	CAMPBELL and HUANG, "Detection of California serogroup Bunyavirus in tissue culture and mosquito pools by PCR," J. Virol. Methods (1996) 57:175-179.	
	S5	CHEN, et al., "A universal PCR primer to detect members of the Potyviridae and its use to examine the taxonomic status of several members of the family," Arch. Virol. (2001) 146:757-766.	
	S6	CONRADT, et al., "16S-23S rDNA internal transcribed spacer sequences for analysis of the phylogenetic relationships among species of the genus Fusobacterium," Intl. J. System. Evol. Microbiol. (2002) 52:483-499.	
	S7	DASEN, et al., "Classification and identification of Propionibacteria based on ribosomal RNA genes and PCR," System. Appl. Microbiol. (1998) 21:251-259.	
	S8	DEFORCE, et al., "Characterization of DNA oligonucleotides by coupling of capillary zone electrophoresis to electrospray ionization Q-TOF mass spectrometry," Anal. Chem. (1998) 70:3060-3068.	
	S9	DEMASURE, et al., "A set of universal primers for amplification of polymorphic non-coding regions of mitochondrial and chloroplast DNA in plants," Mol. Ecol. (1995) 4:129-131.	
	S10	FLORA, et al., "Dual-micro-ESI source for precise mass determination on a quadrupole time-of-flight mass spectrometer for genomic and proteomic applications," Anal. Bioanal. Chem. (2002) 373:538-546.	
<i>N</i>	S11	FOX, et al., "Identification of Brucella by ribosomal-spacer-region PCR and differentiation of Brucella canis from other Brucella spp. pathogenic for humans by carbohydrate profiles," J. Clin. Microbiol. (1998) 36:3217-3222.	

Examiner Signature	<i>N</i>	Date Considered	3/7/04
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Sheet 2 of 5

**Complete if Known**

Application Number	10/660,997-122
Filing Date	September 12, 2003
First Named Inventor	David J. Ecker
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	IBIS0063-100/DIBIS-0002US.P2

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	S12	FOX et al., "Report of the 'Bioterrorism Workshop'", J. Microbiol. Methods (2002) 51:247-254.	
	S13	GRIFFEY and GREIG, "Detection of base pair mismatches in duplex DNA and RNA oligonucleotides using electrospray mass spectrometry," SPIE (1997) 2985:82-86.	
	S14	GRIFFIN, et al., "Direct genetic analysis by matrix-assisted laser desorption/ionization mass spectrometry," proc. Natl. Acad. Sci. USA (1999) 96:6301-6306.	
	S15	HANNIS and MUDDIMAN, "Accurate characterization of the tyrosine hydroxylase forensic allele 9.3 through development of electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," Rapid. Comm. Mass Spectrom. (1999) 13:954-962.	
	S16	HANNIS and MUDDIMAN, "Genotyping short tandem repeats using flow injection and electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," Rapid. Comm. Mass Spectrom. (2001) 15:348-350.	
	S17	HANNIS and MUDDIMAN, "Detection of double-stranded PCR amplicons at the attomole level electrosprayed from low nanomolar solutions using FT-ICR mass spectrometry," Fresenius J. Anal. Chem. (2001) 369:246-251.	
	S18	HAYASHI, et al., "Phylogenetic analysis of the human gut microbiota using 16S rDNA clone libraries and strictly anaerobic culture based methods," Microbiol. Immunol. (2002) 46:535-548.	
	S19	HOFFMANN, et al., "Universal primer set for the full-length amplification of all influenza A viruses," Arch. Virol. (2001) 146:2275-2289.	
	S20	ISOLA, et al., "MALDI-TOF mass spectrometric method for detection of hybridized DNA oligomers," Anal. Chem. (2001) 73:2126-2131.	
	S21	JANKOWSKI and SOLER, "Mass spectrometry of DNA: Part 2* Quantitative estimation of base composition," Eur. J. Mass Spectrom. Biochem. Med. Environ. Res. (1980) 1:45-52.	
	S22	KAGEYAMA and BENNO, "Rapid detection of human fecal Eubacterium species and related genera by tested PCR method," Microbiol. Immunol. (2001) 45:315-318.	

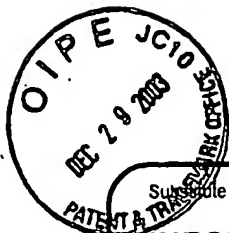
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	S23	LITTLE, et al., "Rapid sequencing of oligonucleotides by high-resolution mass spectrometry," J. Am. Chem. Soc. (1994) 116:4893-4897.	
	S24	LIU, et al., "Improving the microdialysis procedure for electrospray ionization mass spectrometry of biological samples," J. Mass Spectrom. (1997) 32:425-431.	
	S25	MANGRUM, et al., "Solution composition and thermal denaturation for the production of single-stranded PCR amplicons: piperidine-induced destabilization of the DNA duplex," J. Am. Soc. Mass Spectrom. (2002) 13:232-240.	
	S26	MCCABE, et al., "Bacterial species identification after DNA amplification with a universal primer pair," Mol. Genet. Metab. (1999) 66:205-211.	
	S27	MEIYU, et al., "Detection of flaviviruses by reverse transcriptase-polymerase chain reaction with the universal primer set," Microbiol. Immunol. (1997) 41:209-213.	
	S28	MORICCA, et al., "Detection of Fusarium oxysporum f.sp. vasinfectum in cotton tissue by polymerase chain reaction," Plant Pathol. (1998) 47:486-494.	
	S29	MUDDIMAN, et al., "Characterization of PCR products from Bacilli using electrospray ionization FTICR mass spectrometry," Anal Chem. (1996) 68:3705-3712.	
	S30	NAGPAL, et al., "Utility of 16S-23S rRNA spacer region methodology: how similar are interspace regions within a genome and between strains for closely related organisms?," J. Microbiol. Methods (1998) 33:211-219.	
	S31	NULL, et al., "Preparation of single-stranded PCR products for electrospray ionization mass spectrometry using the DNA repair enzyme lambda exonuclease," Analyst (2000) 125:619-626.	
	S32	NULL, et al., "Evaluation of sample preparation techniques for mass measurements of PCR products using ESI-FT-ICR mass spectrometry," Am Soc. Mass Spectrom. (2002) 13:338-344.	

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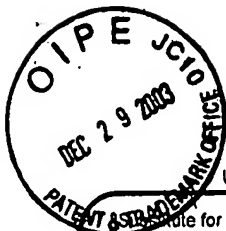
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✓	S44	WUNSCHER, et al., "Mass spectrometric characterization of DNA for molecular biological applications: advances using MALDI and ESI." Adv. Mass Spectrom., Vol. 14, Karjalainen, et al., (eds.) 1998, Elsevier, Amsterdam.	

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